

● PRINTER RUSH ●

(PTO ASSISTANCE)

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|-------------------------------|-------------------------------|-----------------------|
| Application : <u>09744904</u> | Examiner : <u>lee</u> | GAU : <u>17/3</u> |
| From : <u>ewc</u> | Location : <u>IBC</u> FMF FDC | Date : <u>8-29-05</u> |

Tracking #: cpm 09744904 Week Date: 5-23-05

| DOC CODE | DOC DATE | MISCELLANEOUS |
|--|----------------|--|
| <input type="checkbox"/> 1449 | _____ | <input type="checkbox"/> Continuing Data |
| <input type="checkbox"/> IDS | _____ | <input type="checkbox"/> Foreign Priority |
| <input type="checkbox"/> CLM | _____ | <input type="checkbox"/> Document Legibility |
| <input type="checkbox"/> IIFW | _____ | <input type="checkbox"/> Fees |
| <input type="checkbox"/> SRFW | _____ | <input type="checkbox"/> Other |
| <input type="checkbox"/> DRW | _____ | |
| <input type="checkbox"/> OATH | _____ | |
| <input type="checkbox"/> 312 | _____ | |
| <input checked="" type="checkbox"/> SPEC | <u>1-31-01</u> | |

[RUSH] MESSAGE: _____

Spec: s: action page 326 is cut off
at bottom of page

Thank you

[XRUSH] RESPONSE: _____

Dave

INITIALS: [Signature]

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

[Table 2]

| | Type of comonomer | Amount of Comonomer mol% | Methyl branch /1000C | Hexyl branch /1000C | $[\eta]$ dl/g | *1 | MFR g/10min | Mw/Mn | *2 wt% | *3 wt% | *4 wt% | *5 wt% | *6 wt% | *7 wt% | Density g/cm ³ | Amount of C10-soluble component wt% | *8 |
|-----------------------|-------------------|--------------------------|----------------------|---------------------|---------------|------|--------------|-------|--------|--------|--------|--------|--------|--------|---------------------------|-------------------------------------|------|
| Example 16 | - | 0.0 | <0.1 | <0.1 | 3.36 | 3.29 | 0.05 | 22.5 | - | - | - | - | - | - | 0.968 | - | - |
| Example 17 | 1-butene | 0.7 | <0.1 | <0.1 | 3.24 | 3.18 | 0.06 | 21.4 | 0.5 | - | 9.0 | 16.2 | 9.5 | 1.5 | 0.957 | 0.05 | 0.14 |
| Example 18 | 1-butene | 0.6 | <0.1 | <0.1 | 3.01 | - | not measured | 14.8 | - | - | - | - | - | - | 0.950 | - | - |
| Comparative Example 5 | 1-butene | 0.8 | 0.6 | <0.1 | 1.76 | 1.64 | 1.85 | 3.3 | 0.2 | - | 11.1 | 10.5 | 15.3 | 1.6 | 0.952 | 0.06 | 0.16 |
| Comparative Example 6 | - | 0.0 | 0.6 | - | 1.23 | 1.10 | 15 | 6.0 | - | - | - | - | - | - | 0.971 | - | - |
| Comparative Example 7 | 1-butene | 0.8 | 0.3 | <0.1 | 3.34 | 3.29 | 0.05 | 18.3 | 9.7 | - | 20.0 | 46.0 | 20.4 | 9.4 | 0.951 | 0.36 | 0.17 |

*1 the value of $1.85 \times \text{MFR}^{-0.192}$ in the case of $\text{MFR} < 1$ and the value of $1.85 \times \text{MFR}^{-0.213}$ in the case of $\text{MFR} \geq 1$.

*2 the amount of components with $\geq 500,000$ PE conversion molecular weight measured by GPC-IR in components eluted at $\geq 105^\circ\text{C}$ in TREF

*3 the amount of components eluted at $\geq 105^\circ\text{C}$ in TREF

*4 the amount of components eluted at $\geq 106^\circ\text{C}$ in TREF

*5 the amount of components with $\geq 10,000$ PE conversion molecular weight in components eluted at $\leq 75^\circ\text{C}$ in PX

*6 the ratio of components dissolved at $\leq 75^\circ\text{C}$ in PX to the whole copolymer before dissolution.

*7 the ratio of components with $\geq 10,000$ PE conversion molecular weight in components eluted at $\leq 75^\circ\text{C}$ in PX to the whole copolymer before dissolution.

*8 the value of $80 \times \exp(-100 \times (d - 0.88)) + 0.1$ in the case $\text{MFR} \leq 10$ g/10 min and the value of $80 \times (\text{MFR} - 9)^{0.25} \times \exp(-100 \times (d - 0.88)) + 0.1$ in the case $\text{MFR} > 10$ g/10 min.